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1 Integrating Database Technology with Comparison-based Parallel Performance Diagnosis: The PerfTrack Performance Experiment Management Tool

Karen L. Karavanic, John May, Kathryn Mohror, Brian Miller, Kevin Huck, Rashawn Knapp, Brian Pugh

November 2005   SC '05: Proceedings of the 2005 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available: 🗎Pdf (746.95 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 38,   Citation Count: 2

PerfTrack is a data store and interface for managing performance data from large-scale parallel applications. Data collected in different locations and formats can be compared and viewed in a single performance analysis session. The underlying data store ...

2 Communications of the ACM: Volume 51 Issue 9

September 2008   Communications of the ACM

Publisher: ACM

Full text available: 🗎Digital Edition , 🗎Pdf (8.68 MB)   Additional Information: full citation

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3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: Pdf (4.21 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 500, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

4 Communications of the ACM: Volume 51 Issue 8

August 2008 Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (6.85 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 630, Downloads (12 Months): 1909, Citation Count: 0

5 Communications of the ACM: Volume 51 Issue 7

July 2008 Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (6.54 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 4766, Downloads (12 Months): 5487, Citation Count: 0

6 A history of Haskell: being lazy with class

Paul Hudak, John Hughes, Simon Peyton Jones, Philip Wadler

June 2007 HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Additional Information: full citation,

Full text available: Mov (56:47 MIN), Pdf (1.15 MB) appendices and supplements, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 126, Downloads (12 Months): 1559, Citation Count: 0

This paper describes the history of Haskell, including its genesis and principles, technical contributions, implementations and tools, and applications and impact.

7 Evolving a language in and for the real world: C++ 1991-2006

Bjarne Stroustrup

June 2007   HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Additional Information: full citation, appendices and supplements, abstract, references, index terms

Full text available: Mov (60:46 MIN), Pdf (838.10 KB)

Bibliometrics: Downloads (6 Weeks): 105,   Downloads (12 Months): 727,   Citation Count: 0

This paper outlines the history of the C++ programming language from the early days of its ISO standardization (1991), through the 1998 ISO standard, to the later stages of the C++0x revision of that standard (2006). The emphasis is on the ideals, constraints, ...

Keywords: C++, ISO, STL, evolution, history, language use, libraries, multi-paradigm programming, programming language, standardization

8 Relations as an abstraction for BDD-based program analysis

Ondřej Lhoták, Laurie Hendren

July 2008   Transactions on Programming Languages and Systems (TOPLAS), Volume 30 Issue 4

Publisher: ACM

Full text available: Pdf (2.82 MB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 33,   Downloads (12 Months): 109,   Citation Count: 0

In this article we present Jedd, a language extension to Java that supports a convenient way of programming with Binary Decision Diagrams (BDDs). The Jedd language abstracts BDDs as database-style relations and operations on relations, and provides static ...

Keywords: Binary decision diagrams, Boolean formula satisfiability, Java, language design, physical domain assignment, points-to analysis, program analysis, relations

9 AppleScript

William R. Cook

June 2007   HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages

Publisher: ACM

Additional Information: full citation, appendices and supplements, abstract, references, index terms

Full text available: Mov (55:56 MIN), Pdf (621.56 KB)

Bibliometrics: Downloads (6 Weeks): 39,   Downloads (12 Months): 259,   Citation Count: 0

AppleScript is a scripting language and environment for the Mac OS. Originally conceived in 1989, AppleScript allows end users to *automate* complex tasks and *customize* Mac OS applications. To automate tasks, AppleScript provides standard …

Keywords: AppleScript, history, scripting

10 ACM SIGAda Ada Letters: Volume XXVII Issue 1

April   SIGAda Ada Letters
2007
Publisher: ACM

Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

11 Component evolution and versioning state of the art

Alexander Stuckenholz
January   SIGSOFT Software Engineering Notes , Volume 30 Issue 1
2005
Publisher: ACM

Full text available: Pdf (213.99 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 176,   Citation Count: 5

Emerging component-based software development architectures promise better re-use of software components, greater flexibility, scalability and higher quality of services. But like any other piece of software too, software components are hardly perfect, …

12 RPython: a step towards reconciling dynamically and statically typed OO languages

Davide Ancona, Massimo Ancona, Antonio Cuni, Nicholas D. Matsakis
October   DLS '07: Proceedings of the 2007 symposium on Dynamic languages
2007
Publisher: ACM

Full text available: Pdf (239.48 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16,   Downloads (12 Months): 90,   Citation Count: 0

Although the C-based interpreter of Python is reasonably fast, implementations on the CLI or the JVM platforms offers some advantages in terms of robustness and interoperability. Unfortunately, because the CLI and JVM are primarily designed to execute …

Keywords: .NET, JVM, Python

13 Yet another network simulator

Mathieu Lacage, Thomas R. Henderson

October 2006   WNS2 '06: Proceeding from the 2006 workshop on ns-2: the IP network simulator

Publisher: ACM

Full text available: Pdf (183.55 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 134,   Citation Count: 5

We report on the design objectives and initial design of a new discrete-event network simulator for the research community. Creating Yet Another Network Simulator (*yans*, http://yans.inria.fr/yans) is not the sort of prospect network researchers ...

14 Type-Safe linking with recursive DLLs and shared libraries

Dominic Duggan

November 2002   Transactions on Programming Languages and Systems (TOPLAS) , Volume 24 Issue 6

Publisher: ACM

Full text available: Pdf (658.62 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 49,   Citation Count: 6

Component-based programming is an increasingly prevalent theme in software development, motivating the need for expressive and safe module interconnection languages. Dynamic linking is an important requirement for module interconnection languages, as ...

Keywords: Dynamic Linking, Module Interconnection Languages, Recursive Modules, Shared Libraries

15 Computing curricula 2001

CORPORATE The Joint Task Force on Computing Curricula

September 2001   Journal on Educational Resources in Computing (JERIC) , Volume 1 Issue 3es

Publisher: ACM

Full text available: Html (2.78 KB),   Pdf (613.63 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 165,   Downloads (12 Months): 1332,   Citation Count: 23

16 AspecIML: A polymorphic aspect-oriented functional programming language

Daniel S. Dantas, David Walker, Geoffrey Washburn, Stephanie Weirich

May   Transactions on Programming Languages and Systems (TOPLAS) ,
2008   Volume 30 Issue 3
Publisher: ACM

Full text available: Pdf (1.46
MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 33,   Downloads (12 Months): 190,   Citation Count: 0

This article defines AspectML, a typed functional, aspect-oriented programming
language. The main contribution of AspectML is the seamless integration of
polymorphism, run-time type analysis and aspect-oriented programming language
features. In particular, ...

Keywords: Aspect-oriented programming, functional languages, parametric and
ad-hoc polymorphism, type inference, type systems

17 A theory of aspects as latent topics

Pierre F. Baldi, Cristina V. Lopes, Erik J. Linstead, Sushil K. Bajracharya

October   OOPSLA '08: Proceedings of the 23rd ACM SIGPLAN conference on
2008   Object oriented programming systems languages and applications
Publisher: ACM

Full text available: Pdf (2.60
MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 73,   Downloads (12 Months): 73,   Citation Count: 0

After more than 10 years, Aspect-Oriented Programming (AOP) is still a
controversial idea. While the concept of aspects appeals to everyone's intuitions,
concrete AOP solutions often fail to convince researchers and practitioners alike.
This discrepancy ...

Keywords: aspect-oriented programming, scattering, tangling, topic models

Also published in:
October 2008 **SIGPLAN Notices** Volume 43 Issue 10

18 What does aspect-oriented programming mean to Cobol?

Ralf Lämmel, Kris De Schutter

March   AOSD '05: Proceedings of the 4th international conference on Aspect-
2005   oriented software development
Publisher: ACM

Full text available: Pdf (172.28   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 86,   Citation Count: 3

We study AOP in the context of business programming with Cobol. We face the
following questions: What are join points in Cobol programs? What is advice? Does
classic Cobol provide any constructs that hint at AOP? (Yes!) What are typical
crosscutting ...

Keywords: Cobol, aspect-oriented programming, business programming

19 Migration of legacy web applications to enterprise Java™ environments net. data® to JSP™ transformation

Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi

October   CASCON '03: Proceedings of the 2003 conference of the Centre for
2003   Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: Pdf (165.69 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 116, Citation Count: 1

As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, ...

Keywords: Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net. Data, SQL, migration, model-view-controller (MVC), transformation

20 Simple and safe SQL queries with c++ templates

Joseph (Yossi) Gil, Keren Lenz

October   GPCE '07: Proceedings of the 6th international conference on Generative
2007   programming and component engineering

Publisher: ACM

Full text available: Pdf (325.50 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 190, Citation Count: 0

Most software applications use a relational database for data management and storage. Interaction with such a database is often done by letting the program construct strings with valid SQL statements, which are then sent for execution to the database ...

Keywords: C++, databases, domain specific languages, embedded languages, relational algebra, structural type equivalence, template programming

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